Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

NOV 16 1995

96-TEP-022

Mr. Roger F. Stanley
Tri-Party Agreement Implementation
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

Dear Mr. Stanley:

QUARTERLY REPORT - TREATABILITY TESTS

Reference: Your ltr. to E. A. Bracken, et. al., dated February 14, 1989, "Treatability Test Exclusions Notification" 2079

Pursuant to WAC 173-303-071(3) (r & s) and reporting requirements detailed in the above referenced letter, attached are the quarterly report of treatability tests for the third quarter and projections for the fourth quarter of calendar year 1995.

In response to your request, this report has been revised to incorporate additional information on treatability sample collection and daily quantity in storage as well as information regarding the specific type of test technology. The format has also been revised to facilitate presentation of the information. We would appreciate any comments you care to make on the effectiveness of this new format in presenting the information.

If you have any questions regarding this report, please contact Mr. Dale Jackson, of my staff, on (509) 376-4851.

Sincerely,

James E. Rasmussen

James E. Rasmussen, Director
Environmental Assurance,
Permits and Policy Division

Attachment

cc w/attch:
B. Burke, CTUIR
S. M. Alexander, Ecology
M. J. White, Ecology
D. R. Sherwood, EPA
D. Powaukee, NPT
K. C. Brog, PNL
E. M. Greager, WHC
R. Jim, YIN

ATTACHMENT 1

HAZARDOUS WASTE TREATABILITY TESTS AT HANFORD

Individual Tests for Third Quarter of 1995

Name: U. S. Department of Energy
Address: P.O. Box 550, Richland, Washington 99352
ID Number WA 7890008967

Waste samples provided by and treatability studies performed for the U.S. Department of Energy, Hanford Site, except as noted.

Location	Waste Type	Total Quantity in storage daily	Technology Tested	Dates of Study	Amount Tested Jul-Sep 1995 (kg)	Amount to be Tested Oct-Dec 1995 (kg)	Final Disposal of Sample Portion	Final Disposal of Residues	Amount of Waste Shipped (kg)	Date of Shipment
324	Spent aluminum potliner(1)	**496.6 kg** 7/1/95 9/8/95 **0 kg** 9/9/95 9/30/95	Vitrification	NA	0	0	Sent to Burlington Environ-mental EPA ID No: WAD0008 12909	NA	0	NA

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324	Napalm[2]	**1.44 kg** 7/1/95 8/15/95 **0 kg** 8/16/95 9/30/95	Film formation	NA	0	0	Solid waste at Central Waste Complex	Solid waste at Central Waste Complex	0	NA
325	Tank C-103 Sludge	**0.008 kg** 7/1/95 9/30/95	Sludge wash /leaching	NA	0	0	NA	NA	0	NA
325	Tank T-104 Sludge	**0.0063 kg** 7/1/95 8/8/95 **0 kg** 8/9/95 9/30/95	Sludge leaching	8/8/95	0.0063	0	NA	Solid waste at Central Waste Complex	0	NA
325	Tank BX-107 Sludge	**0.0209 kg** 7/1/95 9/30/95	Sludge wash/ caustic leach	NA	0	0	NA	NA	0	NA
325	Tank B-110 sludge	**0.0132 kg** 7/1/95 9/30/95	TRU leaching	NA	0	0.0132	NA	NA	0	NA
325	Tank U-110 sludge	**0.0064 kg** 7/1/95 9/30/95	Sludge leaching	NA	0	0.0064	NA	NA	0	NA

Location	Waste Type	Total Quantity in storage daily	Technology Tested	Dates of Study	Amount Tested Jul-Sep 1995 (kg)	Amount to be Tested Oct-Dec 1995 (kg)	Final Disposal of Sample Portion	Final Disposal of Residues	Amount of Waste Shipped (kg)	Date of Shipment
325	Tank waste composite (101-AW, 106-AP, 102-AP)	**0.31 kg** 7/1/95 9/1/95 **0 kg** 9/2/95 9/30/95	Ion exchange	9/1/95	0.31	0	NA	Solid waste at Central Waste Complex	0	NA
325	Tank SY-111 Sludge	**0.0032 kg** 9/12/95 9/30/95	Sludge leaching	NA	0	0	NA	NA	0.0032	9/12/95
325	Tank SY-103 Sludge	**0.0050 kg** 9/12/95 9/30/95	Sludge leaching	NA	0	0	NA	NA	0.0050	9/12/95
325	Plutonium Finishing Plant	**0.0158 kg** 7/1/95 9/30/95	Dissolution and solvent extraction	NA	0	0	NA	NA	0	NA
325	Complexant Concentra-tion Waste	**0.0187 kg** 7/1/95 9/30/95	Dissolution solvent extraction and ion exchange	NA	0	0	NA	NA	0	NA

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325	Underground storage tank pretreat-ment (C-109)	**0.0004 kg** 7/1/95 9/30/95	Sludge washing dissolution selective leaching and solvent extraction	NA	0	0	NA	NA	0	NA
325	Tank C-107 sludge	**0.0100 kg** 7/1/95 9/30/95	Sludge leaching	NA	0	0.0100	NA	NA	0	NA
325	Neutralized Cladding Removal Waste Water	**0.0375 kg** 7/1/95 9/30/95	Sludge leaching	NA	0	0.0100	NA	NA	0	NA
326	Red Water(3)	**2.320 kg** 7/1/95 9/30/95	Nit-Rem destruction of organics and nitrates	NA	0	0	NA	NA	0	NA

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222-S	Tank 107-AN	**0.7 kg** 3/1/95 - 6/30/95 **0.3 kg** 7/1/95 - 9/30/95	Enhanced Sludge Washing	8/15/95 to 9/30/95	0.15	1.0	Tank Farms Via 219-S Tank System (Unless otherwise noted)	Tank Farms Via 219-S Tank System (Unless other wise noted)	0	N/A
222-S	Tank 101-SY	**2.4 kg** 7/1/95 - 9/30/95	Chromium Oxidation	8/15/95 to 9/30/95	0.005	0.005	N/A	N/A	0	N/A
222-S	Tank 101-SY	See above	Dilution and gas generation studies	Ongoing	0.4 Ongoing from 2nd quarter	0.4	N/A	N/A	0	N/A
222-S	Tank 101-SY	See above	Enhanced Sludge Washing	8/15/95 to 9/30/95	0.005	0.005	N/A	N/A	0	N/A
222-S	Tank 102-SY	**<0.1 kg** 4/30/95 - 6/30/95	Chromium Oxidation	8/15/95 to 9/29/95	0.005	0.005	N/A	N/A	0	N/A

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222-S	Tank 104-S	**0.45 kg** 4/30/95 - 6/30/95	Calcination /Dissolution and Enhanced Sludge wash	N/A	0	0	N/A	N/A	0	N/A
222-S	Tank 110-U	**0.5 kg**	Calcination/ Dissolution and Enhanced Sludge wash	N/A	0	0	N/A	N/A	0	N/A
222-S	Tank 102-AN	**0.3 kg** 4/30/95 - Present	Caustic Addition	N/A	0	0	NA	N/A	0	N/A
222-S	Tank 103-SY	**0 kg**	Cesium Ion Exchange	N/A	0	0	N/A	N/A	0	N/A
222-S	Tank 102-AZ	**0.10 kg** 7/17/95 - 9/30/95	Enhanced Sludge wash/ Chromium Oxidation	7/3/95 to 12/5/95	0.15	0.15	N/A	N/A	0	N/A
222-S	Tank 101-SY	N/A	N/A	N/A	0	0	N/A	N/A	0.08 kg	6/30/95

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CWC	183-H Basin Sludge	N/A	N/A	N/A	0	0	N/A	N/A	1 kg	8/22/95
222-S	Tank 103-SY	N/A	N/A	N/A	0	0	N/A	N/A	0.08 kg	6/30/95

Note: (1) Customer is Kaiser Aluminum and Chemical Corporation, Mead Works, ID No. WAD000065508
(2) Customer is Fallbrook Navy Detachment, ID No. CAL170090210
(3) Customer is Radford Army Ammunition Plant, ID No. VA1210010730
NA: Not-applicable

9613470.0128

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author	Addressee	Correspondence No.
J. E. Rasmussen, RL	R. F. Stanley, Ecology	Incoming:9504966

Subject: QUARTERLY REPORT - TREATABILITY TESTS

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